

Hitachi Content Platform for Cloud Scale

v1.1.0

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Introduction

The Appliance Operating System is based on the open-source operating system Fedora 25 from the Fedora Project (<http://fedoraproject.org>). It also includes several additional open-source software packages.

The Hitachi Content Platform for cloud scale (HCP for cloud scale) software incorporates multiple open-source software packages and proprietary third-party components.

Unless otherwise indicated in this book, open-source and third-party software is used without modification.

To obtain any of the open-source software packages mentioned in this book, please contact:

Project manager, HCP for cloud scale
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Hitachi Vantara gratefully acknowledges the contributions of the open source community in the development of the Appliance Operating System and HCP for cloud scale software.

Hitachi Content Platform for cloud scale software third-party components

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tomcat-jsp-api
Version 8.5.37

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tomcat-juli
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tomcat-servlet-api
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tomcat-util
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true-case-path

Version 1.0.3

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<https://github.com/Microsoft/tslib.git>

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tslint

Version 5.11.0

Source

<https://github.com/palantir/tslint.git>

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Third-party package

tsutils

Version 2.29.0

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tunnel-agent
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tweetnacl
Version 0.14.5

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type-is
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Copyright (c) 2014 Jonathan Ong <me@jongleberry.com> Copyright (c) 2014-2015 Douglas Christopher Wilson <doug@somethingdoug.com>

Source

<https://github.com/jshttp/type-is.git>

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Version 0.0.6

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<https://github.com/Microsoft/TypeScript.git>

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uglify-js
Version 3.4.9

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Source

<https://github.com/mishoo/UglifyJS2.git>

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UI Bootstrap
Version 2.4.0

Copyright

"Copyright (c) 2012-2017 the AngularUI Team,
<https://github.com/organizations/angular-ui/teams/291112>"

Source

<https://angular-ui.github.io/bootstrap/>

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UI Router
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ui-ace
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ultron
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<doug@somethingdoug.com>

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<https://github.com/stream-utils/unpipe>

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<https://github.com/kemitchell/validate-npm-package-license.js.git>

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Velocity
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VertX Swagger Router
Version 1.5.0

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<https://github.com/phiz71/vertx-swagger/tree/master/modules/vertx-swagger-router>

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vertx-auth-common
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webpack-merge
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Ws Rs-API
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Xerces
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xml2js

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xtend

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XZ for Java

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Yammer Metrics
Version 2.2.0

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<http://metrics.dropwizard.io/>

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yargs
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yargs-parser
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ZkClient
Version 0.5

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<https://github.com/sgroschupf/zkclient>

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Zookeeper
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Operating system third-party components

This table contains all the operating system third-party software packages included in the Docker containers in which the HCP for cloud scale software runs.

Package name	Version	Source URL	License	Copyright
aajohan-comfortaa-fonts	3.001	http://aajohan.deviantart.com	" SIL Open Font License " on page 796	
acl	2.2.53	https://savannah.nongnu.org/projects/acl	" GNU General Public License, Version 2+ (GPLv2+) " on page 723	
alsa-lib	1.1.6	http://www.alsa-project.org/	" GNU Lesser General Public License, Version "	

Package name	Version	Source URL	License	Copyright
			2+ (LGPLv2+) on page 748	
android-json-org-java	6.0.1	https://android.googleusercontent.com/platform/libcore/+/master/json	"Apache License, version 2.0" on page 646	
antlr-tool	2.7.7	http://www.antlr2.org/	ANTLR-PD	
antlr4-runtime	4.5.2	http://www.antlr.org/	"BSD License" on page 654	
apache-commons-beanutils	1.9.3	http://commons.apache.org/beanutils	"Apache License, version 2.0" on page 646	
apache-commons-cli	1.4	http://commons.apache.org/cli/	"Apache License, version 2.0" on page 646	
apache-commons-collections	3.2.2	http://commons.apache.org/collections/	"Apache License, version 2.0" on page 646	
apache-commons-daemon	1.0.15	http://commons.apache.org/daemon	"Apache License, version 2.0" on page 646	

Package name	Version	Source URL	License	Copyright
ons-daemon			"2.0" on page 646	
apache-commons-daemon-jsvc	1.0.15	http://commons.apache.org/daemon	"Apache License, version 2.0" on page 646	
apache-commons-dbc	1.4	http://commons.apache.org/dbcp/	"Apache License, version 2.0" on page 646	
apache-commons-logging	1.2	http://commons.apache.org/logging	"Apache License, version 2.0" on page 646	
apache-commons-pool	1.6	http://commons.apache.org/pool/	"Apache License, version 2.0" on page 646	
apr	1.6.3	http://apr.apache.org/	ASL 2.0 and "BSD License (with Advertising)" on page 655 and "ISC License" on page 765 and	Copyright (C) 2000 - 2017 The Apache Software Foundation Copyright (C) 1996 Internet Software Consortium Copyright (C) 1992 - 2017 Free Software Foundation Inc Copyright (C) 2004 - 2015 Free Software Copyright (C) 2001 - 2002 Caldera International Inc All rights reserved Copyright (C) 2000 Martin Pool <mbp@humblebug.org.au>

Package name	Version	Source URL	License	Copyright
			" BSD License " on page 654	
apr	1.6.5	http://apr.apache.org/	ASL 2.0 and " BSD License (with Advertising) " on page 655 and " ISC License " on page 765 and " BSD License " on page 654	
apr-util	1.6.1	http://apr.apache.org/	" Apache License, version 2.0 " on page 646	
atomic-registry	1.22.1	https://github.com/projectatomic/atomic	" GNU Lesser General Public License, Version 2+ (LGPLv2+) " on page 748	

Package name	Version	Source URL	License	Copyright
audit-libs	2.8.4	http://people.redhat.com/sgrubb/audit/	" GNU Lesser General Public License, Version 2+ (LGPLv2+) " on page 748	
audit-libs	3	http://people.redhat.com/sgrubb/audit/	" GNU Lesser General Public License, Version 2+ (LGPLv2+) " on page 748	
autogen-libopts	5.18.14	http://www.gnu.org/software/autogen/	" GNU General Public License, Version 3 (GPLv3) " on page 724	
avahi-libs	0.7	http://avahi.org	" GNU Lesser General Public License, Version 2+ (LGPLv2+) " on page 74	

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			8	
basesystem	11	(none)	Public Domain	
bash	4.4.23	https://www.gnu.org/software/bash	" GNU General Public License, Version 3 (GPLv3) " on page 724	
binutils	2.31.1	https://sourceware.org/binutils	" GNU General Public License, Version 3 (GPLv3) " on page 724	
brotli	1.0.5	https://github.com/google/brotli	" MIT License " on page 767	
bzip2-libs	1.0.6	http://www.bzip.org/	" BSD License " on page 654	"Copyright (C) 1996 - 2010 "" Julian Seward.\n"" Copyright (C) 1996 - 2010 documentation are Julian R Seward All Copyright (C) 1996 - 2010 Julian Seward <jseward@bzip.org> Copyright (C) 1997 - 2009 American Mathematical Society"
ca-certificates	2018.2.26	https://fedoraproject.org/wiki/CA-Certificates	Public Domain	

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cglib	3.2.4	https://github.com/cglib/cglib	" Apache License, version 2.0 " on page 646	
checkstyle	8	http://checkstyle.sourceforge.net/	LGPLv2 + and GPLv2+ and " BSD License " on page 654	
chkconfig	1.1	https://github.com/fedora-sysv/chkconfig	" GNU General Public License, Version 2 (GPLv2) " on page 717	
cmake-filesystem	3.12.1	http://www.cmake.org	" BSD License " on page 654 and MIT and " zlib License " on page 804	
compat-openssl10	1.0.2o	http://www.openssl.org/	" OpenSSL and SSLeay License " on page 78	

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			7	
container-selinux	2.73	https://github.com/projectatomic/container-selinux	" GNU General Public License, Version 2 (GPLv2) " on page 717	
container-storage-setup	0.11.0	https://github.com/projectatomic/container-storage-setup	" Apache License, version 2.0 " on page 646	
containers-common	0.1.32	https://github.com/projectatomic/skopeo	" Apache License, version 2.0 " on page 646	
copy-jdk-configs	3.7	https://pagure.io/copy_jdk_configs	" BSD License " on page 654	CANT FIND
coreutils	8.29	https://www.gnu.org/software/coreutils/	" GNU General Public License, Version 3 (GPLv3) " on page 724	
coreutils	8.3	https://www.gnu.org/software/coreutils/	" GNU General	

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			Public License, Version 3 (GPLv3) " on page 724	
coreutils-common	8.29	https://www.gnu.org/software/coreutils/	"GNU General Public License, Version 3 (GPLv3)" on page 724	
coreutils-common	8.3	https://www.gnu.org/software/coreutils/	"GNU General Public License, Version 3 (GPLv3)" on page 724	
cracklib	2.9.6	http://sourceforge.net/projects/cracklib/	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 748	
crash	7.2.3	http://people.redhat.com/anderson	"GNU General	

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			Public License, Version 3 (GPLv3)" on page 724	
crypto-policies	20180425	https://gitlab.com/redhat-crypto/fedora-crypto-policies	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 748	
crypto-policies	20180925	https://gitlab.com/redhat-crypto/fedora-crypto-policies	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 748	
cryptsetup-libs	2.0.4	https://gitlab.com/cryptsetup/cryptsetup	GPLv2+ and LGPLv2+	
cryptsetup-libs	2.0.6	https://gitlab.com/cryptsetup/cryptsetup	GPLv2+ and LGPLv2+	
cups-libs	2.2.6	http://www.cups.org/	LGPLv2 and "zlib License"	"Copyright (C) 1999 Aladdin

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curl	7.59.0	https://curl.haxx.se/	"MIT License" on page 76 7	"Copyright (C) 1997 - 2018 - Daniel Stenberg <daniel@haxx.se> et al

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curl	7.61.1	https://curl.haxx.se/	" MIT License " on page 767	
cyrus-sasl-lib	2.1.27	http://asg.web.cmu.edu/sasl/sasl-library.html	" BSD License (with Advertising) " on page 655	"Copyright (C) 1993 OpenVision Technologies Inc Copyright (C) 1986 - 1991 Sun Microsystems Inc Copyright (C) 1998 - 2017

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cyrus-sasl-md5	2.1.27	http://asg.web.cmu.edu/sasl/sasl-library.html	" BSD License (with Advertising) " on page 655	
dbus	1.12.10	http://www.freedesktop.org/Software/dbus/	(GPLv2+ or AFL) and GPLv2+	
dbus-common	1.12.10	http://www.freedesktop.org/Software/dbus/	(GPLv2+ or AFL) and	

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			GPLv2+	
dbus-daemon	1.12.10	http://www.freedesktop.org/Software/dbus/	(GPLv2+ or AFL) and GPLv2+	
dbus-libs	1.12.10	http://www.freedesktop.org/Software/dbus/	(GPLv2+ or AFL) and GPLv2+	
dbus-tools	1.12.10	http://www.freedesktop.org/Software/dbus/	(GPLv2+ or AFL) and GPLv2+	
dejavu-fonts-common	2.35	http://dejavu-fonts.org/	Bitstream Vera and Public Domain	
dejavu-sans-fonts	2.35	http://dejavu-fonts.org/	Bitstream Vera and Public Domain	
device-mapper	1.02.146	http://sources.redhat.com/dm	"GNU General Public License, Version 2 (GPLv2)" on page 717	

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device-mapper	1.02.150	http://sources.redhat.com/dm	" GNU General Public License, Version 2 (GPLv2) " on page 717	
device-mapper-event	1.02.150	http://sourceware.org/lvm2	" GNU General Public License, Version 2 (GPLv2) " on page 717	
device-mapper-event-libs	1.02.150	http://sourceware.org/lvm2	" GNU Library General Public License, Version 2 (LGPLv2) " on page 738	
device-mapper-libs	1.02.146	http://sourceware.org/lvm2	" GNU Library General Public License, Version 2 (LGPLv2) " on page 738	

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device-mapper-libs	1.02.150	http://sourceware.org/lvm2	" GNU Library General Public License, Version 2 (LGPLv2) " on page 738	
device-mapper-persistent-data	0.7.6	https://github.com/jthorber/thin-provisioning-tools	" GNU General Public License, Version 3 (GPLv3) " on page 724	
diffutils	3.6	http://www.gnu.org/software/diffutils/diffutils.html	" GNU General Public License, Version 3 (GPLv3) " on page 724	
dnf	4.0.4	https://github.com/rpm-software-management/dnf	GPLv2+ and GPLv2 and GPL	
dnf-data	4.0.4	https://github.com/rpm-software-management/dnf	GPLv2+ and GPLv2 and GPL	
docker	1.13.1	https://github.com/projectatomic/docker	" Apache License,	

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			version 2.0 on page 646	
docker-common	1.13.1	https://github.com/projectatomic/docker	" Apache License, version 2.0 " on page 646	
docker-rhel-push-plugin	1.13.1	https://github.com/projectatomic/docker	" GNU General Public License, Version 2 (GPLv2) " on page 717	
easymock	3.5	http://www.easymock.org	" Apache License, version 2.0 " on page 646	
ecj	4.7.3a	http://www.eclipse.org	" Eclipse Public License " on page 687	
ecj	4.9	http://www.eclipse.org	" Eclipse Public License " on page 687	
elfutils-default	0.174	http://elfutils.org/	" GNU General Public License ,	

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yama-scope			Version 3 (GPLv3) " on page 724	
elfutils-default-yama-scope	0.174	http://elfutils.org/	"GNU General Public License, Version 3 (GPLv3)" on page 724	
elfutils-libelf	0.174	http://elfutils.org/	"GNU General Public License, Version 3 (GPLv3)" on page 724	
elfutils-libelf	0.174	http://elfutils.org/	"GNU General Public License, Version 3 (GPLv3)" on page 724	
elfutils-libs	0.174	http://elfutils.org/	"GNU General Public License, Version 3 (GPLv3)" on page 724	

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			3 (GPLv3) " on page 72 4	
elfutils-libs	0.174	http://elfutils.org/	" GNU General Public License, Version 3 (GPLv3) " on page 72 4	
expat	2.2.5	https://libexpat.github.io/	" MIT License " on page 76 7	Copyright (C) 2000 - 2017 Expat development team Copyright (C) 2017 Jos?? Gutierrez de la Concha <jose@zeroc.com> Copyright (C) 2010 Patrick Spendrin <ps_ml@gmx.de> Copyright (C) 1998 - 2000 Thai Open Source Software Center Ltd and Clark Cooper Copyright (C) 1997 - 2000 Thai Open Source Software Center Ltd Copyright (C) 2016 - 2017 - Steve Holme <steve_holme@hotmail.com> Copyright (C) 2016 - 2017 Sebastian Pipping <sebastian@pipping.org> Copyright (C) 2001 - 2017 Expat maintainers
expat	2.2.6	https://libexpat.github.io/	" MIT License " on page 76 7	
fedora-gpg-	28	https://fedoraproject.org	" MIT "	CANT FIND

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keys			"License" on page 76 7	
fedora-gpg-keys	29	https://fedoraproject.org/	"MIT License" on page 76 7	
fedora-release	28	https://pagure.io/fedora-release	"MIT License" on page 76 7	
fedora-release	29	https://fedoraproject.org/	"MIT License" on page 76 7	
fedora-repos	28	https://fedoraproject.org	"MIT License" on page 76 7	CANT FIND
fedora-repos	29	https://fedoraproject.org/	"MIT License" on page 76 7	
file-libs	5.34	http://www.darwinsys.com/file/	"BSD License" on page 65 4	
filesystem	3.8	https://pagure.io/filesystem	Public Domain	
filesystem	3.9	https://pagure.io/filesystem	Public Domain	

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findutils	4.6.0	http://www.gnu.org/software/findutils/	" GNU General Public License, Version 3 (GPLv3) " on page 724	
fontconfig	2.13.0	http://fontconfig.org	" MIT License " on page 767 and Public Domain and UCD	Copyright (C) 2006 ??? Keith Packard Copyright (C) 2007 ?? Chris Wilson Copyright (C) 1995 - 2016 dnl Free Software Copyright (C) 2004 - 2015 Free Software Copyright (C) 2009 ?? Roozbeh Pournader Copyright (C) 2010 ?? Copyright (C) 2012 ?? Parag Nemade Pravin Satpute <psatpute@redhat.com> Copyright (C) 1995 - 2010 Ulrich Drepper <drepper@gnu.ai.mit.edu> Copyright (C) 2005 ?? Patrick Lam Copyright (C) 2011 - 2013 ?? Google Inc Copyright (C) 2008 ?? Neskie Manuel Copyright (C) 2007 ?? Dwayne Bailey and Translate.org.za Copyright (C) 2012 ?? Parag Nemade Copyright (C) 2008 ?? Danilo ??egan Copyright (C) 2008 Steven G Johnson <stevenj@alum.mit.edu> Copyright (C) 2014 ?? Abel Cheung Copyright (C) 2006 ?? Danis Jacquerye

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fontconfig	2.13.1	http://fontconfig.org	"MIT License" on page 767 and Public Domain and UCD	
fontpackage	1.44	http://fedoraproject.org/wiki/fontpackages	Public Domain	

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s-filesystem				
freetype	2.8	http://www.freetype.org	(FTL or GPLv2+) and "BSD License" on page 654 and MIT and Public Domain and "zlib License" on page 804 with acknowledgment	"Copyright (C) 2005 - 2013 George Williams Copyright (C) 1999 - The FreeType Development Team - www.freetype.org Copyright (C) 1999 - 2004 Just van Rossum Antoine Leca Copyright (C) 1999 - 2013 Antoine Leca Copyright (C) 2003 Huw D M Davies for Codeweavers Copyright (C) 2016 Static Jobs LLC Copyright (C) 2000 Computing Research Labs New Mexico State University Copyright (C) 2016 Werner Lemberg Copyright (C) 2001 Michael Pfeiffer Copyright (C) 1999 - 2002 Antoine Leca David Turner Copyright (C) 2010 ""Cowboy"" Ben Alman Copyright (C) 2001 Alexander Peslyak and it is hereby released to the Copyright (C) 2013 Google Inc Copyright (C) 2004 ?? Scott James Remnant <scott@netsplit.com> Copyright (C) 2012 Intel Corporation Copyright (C) 2000 - 2012 Francesco Zappa Nardelli Copyright (C) 2006 - 2014 Adobe Systems Incorporated Copyright (C) 1995 - 2002 Mark Adler Copyright (C) 2001 - 2002 Catharon Productions Inc Copyright (C) 1994 X Consortium Copyright (C) 2007 Dmitry

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freetype	2.9.1	http://www.freetype.org	(FTL or GPLv2+) and "BSD License" on page 654 and MIT and Public Domain and "zlib License" on page 804 with acknowledgment	
gawk	4.2.1	https://www.gnu.org/software/gawk/	"GNU General Public License, Version 3 (GPLv3)" on page 72	"Copyright (C) 1996 - 2012 \" Specialized System Consultants Inc (SSC) Copyright (C) 1996 main.c (copyleft): Update date to Copyright (C) 1986 - 2018 the Free

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gc	7.6.4	http://www.hboehm.info/gc/	" BSD License " on page 654	
gdbm	1.14.1	http://www.gnu.org/software/gdbm/	" GNU General Public License, Version 3 (GPLv3) " on page 724	
gdbm	1.18	http://www.gnu.org/software/gdbm/	" GNU General Public License, Version 3 (GPLv3) " on page 724	
gdbm-libs	1.14.1	http://www.gnu.org/software/gdbm/	" GNU General Public License, Version 3 (GPLv3) " on page 724	

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gdbm-libs	1.18	http://www.gnu.org/software/gdbm/	" GNU General Public License, Version 3 (GPLv3) " on page 724	
gflags	2.1.2	https://gflags.github.io/gflags/	" BSD License " on page 654	
gflags-devel	2.1.2	https://gflags.github.io/gflags/	" BSD License " on page 654	
giflib	5.1.4	http://www.sourceforge.net/projects/giflib/	" MIT License " on page 767	
glib2	2.58.1	http://www.gtk.org	" GNU Lesser General Public License, Version 2+ (LGPLv2+) " on page 748	
glibc	2.27	http://www.gnu.org/software/glibc/	LGPLv2+ and LGPLv2	"Copyright (C) 1987 - 1991 Sun

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glibc	2.28	http://www.gnu.org/software/glibc/	LGPLv2 + and LGPLv2 + with exceptions and GPLv2+ and GPLv2+ with exceptions and "BSD License" on	

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glibc-common	2.28	http://www.gnu.org/software/glibc/	LGPLv2+ and LGPLv2+ with exceptions and GPLv2+ and GPLv2+ with exceptions and "BSD License" on page 654 and Inner-Net and "ISC License" on page 765 and Public Domain and	

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glog	0.3.5	https://github.com/google/glog	"BSD License" on page 654	
gmp	6.1.2	http://gmplib.org/	"GNU General Public License, Version 3 (GPLv3)" on	

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info	6.5	http://www.gnu.org/software/textinfo/	" GNU General Public License, Version 3 (GPLv3) " on page 724	
iproute	4.18.0	http://kernel.org/pub/linux/utils/net/iproute2/	GPLv2+ and Public Domain	
iptables	1.8.0	http://www.netfilter.org/	GPLv2 and Artistic Licence 2.0 and " ISC License " on page 765	

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iptables-libs	1.8.0	http://www.netfilter.org/	GPLv2 and Artistic Licence 2.0 and "ISC License" on page 765	
java-1.8.0-openjdk-headless	1.8.0.181.b15	http://openjdk.java.net/	ASL 1.1 and ASL 2.0 and "BSD License" on page 654 and BSD with advertising and GPL+ and GPLv2 and GPLv2 with exceptions and IJG and	

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java-1.8.0-openjdk-headless	1.8.0.191.b13	http://openjdk.java.net/	ASL 1.1 and ASL 2.0 and "BSD License" on page 654 and BSD with advertising and GPL+ and GPLv2 and GPLv2 with exceptions and IJG and LGPLv2 + and MIT and MPLv2.0 and Public Domain and W3C and "zlib License" on	"Copyright (C) 1994 - 2015 \\" Oracle and/or its affiliates All rights reserved Copyright (C) 2000 ? Compaq Computer Corporation Inc Copyright (C) 2014 dnl Red Hat Inc All rights reserved Copyright (C) 2001 freebxml: freebxml.org All rights reserved Copyright (C) 1999 originally based on software Lotus Copyright (C) 1991 - 2012 Unicode Inc All rights reserved Copyright (C) 1991 - 1998 This software is Thomas G Lane

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libpgp-error	1.33	https://www.gnupg.org/related_software/libpgp-error/	" GNU Lesser General Public License, Version 2+ (LGPLv2+) " on	

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libicu	62.1	http://site.icu-project.org/	" MIT License " on page 76 7 and UCD and Public Domain	
libidn2	2.0.5	https://www.gnu.org/software/libidn/#libidn2	" GNU General Public License, Version 3 (GPLv3) " on page 72 4	
libjpeg-turbo	1.5.3	http://sourceforge.net/projects/libjpeg-turbo	" Independent JPEG Group (IJG) License " on page 76 3	
libjpeg-turbo	2.0.0	http://sourceforge.net/projects/libjpeg-turbo	" Independent JPEG Group (IJG) License " on page 76 3	
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libmodulemd	1.6.4	https://github.com/fedora-modularity/libmodulemd	"MIT License" on page 767	
libmount	2.32.1	http://en.wikipedia.org/wiki/Util-linux	"GNU Lesser General Public License, Version	

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libsepol	2.8	https://github.com/SELinuxProject/selinux/wiki	" GNU Lesser General Public License, Version 2+ (LGPLv2+) " on page 748	
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libsmartcols	2.32.1	http://en.wikipedia.org/wiki/Util-linux	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 748	
libsolv	0.6.35	https://github.com/openSUSE/libsolv	"BSD License" on page 654	
libssh	0.8.3	http://www.libssh.org	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 748	

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libstdc++	8.2.1	http://gcc.gnu.org	"GNU General Public License, Version 3 (GPLv3)" on page 724	

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libusbx	1.0.22	http://libusb.info	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 748	
libutempter	1.1.6	ftp://ftp.altlinux.org/pub/people/ldv/utempter	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 748	

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libX11-common	1.6.6	http://www.x.org	"MIT License" on page 767	
libXau	1.0.8	http://www.x.org	"MIT License" on page 767	
libxcb	1.13.1	http://xcb.freedesktop.org/	"MIT License" on page 767	
libxcrypt	4.2.1	https://github.com/besser82/libxcrypt	LGPLv2+ and "BSD License" on page 654 and Public Domain	
libxcrypt	4.4.3	https://github.com/besser82/libxcrypt	LGPLv2+ and "BSD License" on page 654 and Public Domain	Copyright (C) 2018 Zack Weinberg Copyright (C) 2012 - 2018 Alexander Peslyak Copyright (C) 2013 Alexey Degtyarev <alexey@renatasystems.org> Copyright (C) 2007 - 2017 Thorsten Kukuk Copyright (C) 2019 Björn Esser

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libxcrypt-common	4.2.1	https://github.com/besser82/libxcrypt	LGPLv2+ and "BSD License" on page 654 and Public Domain	
libXext	1.3.3	http://www.x.org	"MIT License" on page 767	
libXi	1.7.9	http://www.x.org	"MIT License" on page 767	
libxml2	2.9.8	http://xmlsoft.org/	"MIT License" on page 767	Copyright (C) 1994 - 2013 Free Software Foundation Copyright (C) 2003 - 2012 Daniel Veillard Copyright (C) 1992 - 2016 Free Software Foundation Inc Copyright (C) 1998 - 1999 W3C (MIT INRIA Keio) Copyright (C) 2004 - 2015 Free Software Copyright (C) 1998 - 2012 Daniel Veillard All Rights Reserved Copyright (C) 2012 Google Inc All Rights Reserved Copyright (C) 1994 X Consortium Copyright (C) 2012 Vojtech Friedl Copyright (C) 2000 Gary Pennington and Daniel Veillard Copyright (C) 2000 IPTC Copyright (C) 2000 All Rights Reserved Copyright (C) 2001 Bjorn Reese <breese@users.sourceforge.net>

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libXtst	1.2.3	http://www.x.org	"MIT License" on page 767	
libyaml	0.2.1	http://pyyaml.org/	"MIT License" on page 767	
libzstd	1.3.6	https://github.com/facebook/zstd	"BSD License" on page 654 and GPLv2	
libzstd	1.3.8	https://github.com/facebook/zstd	"BSD License" on page 654 and GPLv2	Copyright (C) 2012 - 2016 Yann Collet Copyright (C) 2003 - 2008 Yuta Mori All Rights Reserved Copyright (C) 2003 Thomas Klausner Copyright (C) 2012 - 2016 + Yann Collet Copyright (C) 1989 - 2016 Free Software Foundation Inc Copyright (C) 2004 - 2017 Mark Adler Copyright (C) 2017 + Copyright (C) 2014 - 2016 Yann

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lksctp-tools	1.0.16	http://lksctp.sourceforge.net	GPLv2 and GPLv2+ and LGPLv2 and "MIT License" on page 767	"Copyright (C) 1999 - 2000 Cisco Inc Copyright (C) 2001 - 2002 Nokia Copyright (C) 2004 Hewlett-Packard Company Copyright (C) 1999 - 2001 Motorola Copyright (C) 1999 - 2003 Cisco Copyright (C) 2003 - 2007 Hewlett-Packard Development Company L.P Copyright (C) 1989 - 1999 Free Software Foundation Inc Copyright (C) 2001 Nokia Inc Copyright (C) 2001 - 2003 International Business Machines Corp Copyright (C) 2004 - 2005 \" Sridhar Samudrala IBM Corp Copyright (C) 2008 - 2009 Fujitsu Ltd Copyright (C) 2002 Intel Corporation Copyright (C) 2003 La Monte HP Yarroll <piggy@acm.org> Copyright (C) 2003 ** IBM Corp Copyright (C) 2001 La Monte H.P Yarroll Copyright (C) 2001 - 2003 Intel Corp Copyright (C) 2001 D Otis Use this program code or tables Copyright (C) 2005 \" Frank Filz IBM Corp Copyright (C) 2001 - 2005 IBM Corp Copyright (C) 1999 - 2001 Motorola Inc"
lksctp-tools	1.0.16	http://lksctp.sourceforge.net	GPLv2 and GPLv2+	

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			and LGPLv2 and " MIT License " on page 76 7	
log4j12	1.2.17	http://logging.apache.org/log4j/1.2/	" Apache License, version 2.0 " on page 64 6	
logrotate	3.14.0	https://github.com/logrotate/logrotate	" GNU General Public License, Version 2+ (GPLv2+) " on page 72 3	
lua	5.3.4	http://www.lua.org/	" MIT License " on page 76 7	"Copyright (C) 1994 - 2017 Lua.org PUC-Rio Copyright (C) 1994 - 2017 #define LUA_COPYRIGHT LUA_RELEASE "" Lua.org PUC-Rio"""
lua	5.3.5	http://www.lua.org/	" MIT License " on page 76 7	
lua-libs	5.3.4	http://www.lua.org/	" MIT License " on page 76 7	"Copyright (C) 1994 - 2017 Lua.org PUC-Rio Copyright (C) 1994 - 2017 #define LUA_COPYRIGHT LUA_RELEASE "" Lua.org PUC-Rio"""
lua-libs	5.3.5	http://www.lua.org/	" MIT License "	

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			on page 767	
lua-posix	33.3.1	http://luaforge.net/projects/luaposix/	Public Domain	
lua-posix	33.3.1	http://luaforge.net/projects/luaposix/	" MIT License " on page 767	
lvm2	2.02.181	http://sourceware.org/lvm2	" GNU General Public License, Version 2 (GPLv2) " on page 717	
lvm2-libs	2.02.181	http://sourceware.org/lvm2	" GNU Library General Public License, Version 2 (LGPLv2) " on page 738	
lz4-libs	1.8.1.2	https://lz4.github.io/lz4/	GPLv2+ and " BSD License " on page 654	Copyright (C) 2011 - 2017 Yann Collet Copyright (C) 2014 Ipsantil Copyright (C) 1989 - 1991 Free Software Foundation Inc Copyright (C) 2015 Louis P Santillan < ipsantil@gmail.com > Copyright (C) 2015 - 2017 Przemyslaw Skibinski < inikep@gmail.com >

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lz4-libs	1.8.2	https://lz4.github.io/lz4/	GPLv2+ and " BSD License " on page 654	
lzo	2.08	http://www.oberhumer.com/opensource/lzo/	" GNU General Public License, Version 2+ (GPLv2+) " on page 723	
make	4.2.1	http://www.gnu.org/software/make/	" GNU General Public License, Version 3 (GPLv3) " on page 724	
mesos	1.1.0	http://mesos.apache.org/	" Apache License, version 2.0 " on page 646	
mesos-devel	1.1.0	http://mesos.apache.org/	" Apache License, version 2.0 " on page 646	
mockito	1.10.19	http://mockito.org	" MIT License "	

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mpfr	3.1.6	http://www.mpfr.org/	"GNU General Public License, Version 3 (GPLv3)" on page 724	Copyright (C) 1992 - 2017 Free Software Foundation Inc Copyright (C) 2004 - 2015 Free Software Copyright (C) 2003 - 2012 dnl Free Software Foundation Inc Copyright (C) 1994 X Consortium Copyright (C) 2007 Free Software Foundation Inc < http://fsf.org/ >
ncurses	6.1	https://invisible-island.net/ncurses/ncurses.html	"MIT License" on page 767	"Copyright (C) 1998 - 2018 dnl Free Software Foundation Inc Copyright (C) 1988 /** Evans & Sutherland Computer Corporation **/ Copyright (C) 1992 - 2018 Free Software Foundation Inc Copyright (C) 1998 - 2015 -- Free Software Foundation Inc -- Copyright (C) 1989 BULL SA Copyright (C) 1980 - 1993 California with dates from to Copyright (C) 1998 - 2017 print "" Free Software Foundation Inc *"" Copyright (C) 1998 - 2018 \"" Free Software Foundation Inc Copyright (C) 1998 - 2018 -- Free Software Foundation Inc -- Copyright (C) 1994 X Consortium Copyright (C) 1997 Sample debian/rules that uses debhelper GNU Joey Hess"
ncurses-base	6.1	https://invisible-island.net/ncurses/ncurses.html	"MIT License" on page 767	"Copyright (C) 1998 - 2018 dnl Free Software Foundation Inc Copyright (C) 1988 /** Evans & Sutherland Computer Corporation

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ncurses-libs	6.1	https://invisible-island.net/ncurses/ncurses.html	"MIT License" on page 767	<pre> "Copyright (C) 1998 - 2018 dnI Free Software Foundation Inc Copyright (C) 1988 /* Evans & Sutherland Computer Corporation **/ Copyright (C) 1992 - 2018 Free Software Foundation Inc Copyright (C) 1998 - 2015 -- Free Software Foundation Inc -- Copyright (C) 1989 BULL SA Copyright (C) 1980 - 1993 California with dates from to Copyright (C) 1998 - 2017 print "" Free Software Foundation Inc *"" Copyright (C) 1998 - 2018 \"" Free Software Foundation Inc Copyright (C) 1998 - 2018 -- Free Software Foundation Inc -- Copyright (C) 1994 X Consortium Copyright (C) 1997 Sample debian/rules that uses debhelper GNU Joey Hess" </pre>

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nettle	3.4	http://www.lysator.liu.se/~nisse/nettle/	" GNU General Public License, Version 3 (GPLv3) " on page 724	
nettle	3.4.1	http://www.lysator.liu.se/%7Enisse/nettle/	" GNU General Public License, Version 3 (GPLv3) " on page 724	
netty-tcnative	1.1.30	https://github.com/netty/netty/wiki/Forked-Tomcat-Native	" Apache License, version 2.0 " on page 646	
netty3	3.10.6	http://netty.io/	" CCO 1.0 Universal " on page 677	
npth	1.5	http://git.gnupg.org/cgi-bin/gitweb.cgi?p=npth.git	" GNU Lesser General Public License, Version 2+ (LGPLv2+) " on page 748	

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nspr	4.20.0	http://www.mozilla.org/projects/nspr/	" Mozilla Public License, Version 2.0 " on page 778	
nss	3.39.0	http://www.mozilla.org/projects/security/pki/nss/	" Mozilla Public License, Version 2.0 " on page 778	
nss	3.41.0	http://www.mozilla.org/projects/security/pki/nss/	" Mozilla Public License, Version 2.0 " on page 778	
nss-softoken	3.39.0	http://www.mozilla.org/projects/security/pki/nss/	" Mozilla Public License, Version 2.0 " on page 778	
nss-softoken	3.41.0	http://www.mozilla.org/projects/security/pki/nss/	" Mozilla Public License, Version 2.0 " on page 778	

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nss-softoken-freebl	3.39.0	http://www.mozilla.org/projects/security/pki/nss/	"Mozilla Public License, Version 2.0" on page 778	
nss-softoken-freebl	3.41.0	http://www.mozilla.org/projects/security/pki/nss/	"Mozilla Public License, Version 2.0" on page 778	
nss-sysinit	3.39.0	http://www.mozilla.org/projects/security/pki/nss/	"Mozilla Public License, Version 2.0" on page 778	
nss-sysinit	3.41.0	http://www.mozilla.org/projects/security/pki/nss/	"Mozilla Public License, Version 2.0" on page 778	
nss-util	3.39.0	http://www.mozilla.org/projects/security/pki/nss/	"Mozilla Public License, Version 2.0" on page 778	

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nss-util	3.41.0	http://www.mozilla.org/projects/security/pki/nss/	"Mozilla Public License, Version 2.0" on page 778	
ntpdate	4.2.8p12	http://www.ntp.org	MIT and "BSD License" on page 654 and "BSD License (with Advertising)" on page 655	
objectweb-asm	6.2.1	http://asm.ow2.org/	"BSD License" on page 654	
objenesis	2.6	http://objenesis.org/	"Apache License, version 2.0" on page 646	
oci-umount	2.3.4	https://github.com/projectatomic/oci-umount	"GNU General Public License, Version 3 (GPLv3)" on page 724	

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openssl-libs	1.1.0i	http://www.openssl.org/	" OpenSSL and SSLeay License " on page 787	
openssl-libs	1.1.1	http://www.openssl.org/	" OpenSSL and SSLeay License " on page 787	
p11-kit	0.23.14	http://p11-glue.freedesktop.org/p11-kit.html	" BSD License " on page 654	"Copyright (C) 2011 - 2018 Collabora Ltd Copyright (C) 1995 - 2010 Ulrich Drepper <drepper@gnu.ai.mit.edu> Copyright (C) 1995 - 2016 dnI Free Software Foundation Inc Copyright (C) 2012 - 2013 Redhat Inc Copyright (C) 1995 - 2016 dnI Free Software Copyright (C) 2012 - 2018 Red Hat Inc Copyright (C) 1992 - 2017 Free

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pam	1.3.1	http://www.linux-pam.org/	" BSD License " on page 65 4 and GPLv2+	<p>Copyright (C) 2006 Red Hat Copyright (C) 1996 Cristian Gafton Copyright (C) 1996 Andrew G Morgan All rights reserved Copyright (C) 1989 - 1994 - Julianne Frances Haugh Copyright (C) 2005 - 2012 Thorsten Kukuk Copyright (C) 2005 Red Hat Inc Durham North Carolina Copyright (C) 1996 Elliot Lee All rights reserved Copyright (C) 1996 Theodore Ts'o All rights reserved Copyright (C) 2010 - 2017 Tomas Mraz <tmraz@redhat.com> Copyright (C) 2005 - 2013 Thorsten Kukuk <kukuk@thkukuk.de> Copyright (C) 1999 Red Hat Software Inc Copyright (C) 1989 - 1993 (Portions) - Julianne Frances Haugh Copyright (C) 2007 - 2008 ?? Red</p>

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parted	3.2	http://www.gnu.org/software/parted	" GNU General Public License, Version 3 (GPLv3) "	

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pcre	8.42	http://www.pcre.org/	" BSD License " on page 654	Copyright (C) 2005 - 2011 dnI Free Software Foundation Inc Copyright (C) 2009 - 2018 Zoltan Herczeg Copyright (C) 2001 Alexander Tokarev Copyright (C) 1992 - 2017 Free Software Foundation Inc Copyright (C) 1994 - 2017 Free Software Copyright (C) 2005 - 2012 Google Inc Copyright (C) 2013 Tiler Corporation(jiwang@tilera.com) All rights reserved Copyright (C) 2005 - 2010 - Google Inc Copyright (C) 1994 X Consortium Copyright (C) 2008 Steven G Johnson <stevenj@alum.mit.edu> Copyright (C) 2004 - 2017 Bootstrap Authors Copyright (C) 1997 - 2018 University of Cambridge Copyright (C) 2011 Daniel Richard G <skunk@iSKUNK.ORG>
pcre2	10.32	http://www.pcre.org/	" BSD License " on page 654	Copyright (C) 2015 - 2018 New API code University of Cambridge Copyright (C) 1997 - 2012 Original code University of Cambridge Copyright (C) 2005 - 2011 dnI Free Software Foundation Inc Copyright (C) 2009 - 2018 Zoltan Herczeg Copyright (C) 2011 Daniel Richard G <skunk@iSKUNK.ORG> Copyright (C) 1992 - 2017 Free Software Foundation Inc Copyright (C) 1994 - 2017 Free

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pkgconf	1.4.2	http://pkgconf.org/	"ISC License" on page 765	"Copyright (C) 2011 Maarten Bosmans <mkbosmans@gmail.com> Copyright (C) 2012 William Pitcock <nenolod@dereferenced.org> Copyright (C) 2011 - 2017 pkgconf authors (see AUTHORS) Copyright (C) 1992 - 2015 Free Software Foundation Inc Copyright (C) 2000 The NetBSD Foundation Inc Copyright (C) 2004 - 2015 Free Software Copyright (C) 2006 - 2012 Toni Ronkko Copyright (C) 1998 - 2002 Todd C Miller <Todd.Miller@courtesan.com> Copyright (C) 2011 - 2014 dnI pkgconf authors (see AUTHORS) Copyright (C) 1994 X Consortium Copyright (C) 2008 Guido U Draheim <guidod@gmx.de> Copyright (C) 2011 - 2017 \" pkgconf authors (see AUTHORS)"
pkgconf	1.5.3	http://pkgconf.org/	ISC	

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pkgconf-m4	1.4.2	http://pkgconf.org/	GPLv2+ with exceptions	
pkgconf-m4	1.5.3	http://pkgconf.org/	GPLv2+ with exceptions	
pkgconf-pkg-config	1.4.2	http://pkgconf.org/	ISC	"Copyright (C) 2011 Maarten Bosmans <mkbosmans@gmail.com> Copyright (C) 2012 William Pitcock <nenolod@dereferenced.org> Copyright (C) 2011 - 2017 pkgconf authors (see AUTHORS) Copyright (C) 1992 - 2015 Free Software Foundation Inc Copyright (C) 2000 The NetBSD Foundation Inc Copyright (C) 2004 - 2015 Free Software Copyright (C) 2006 - 2012 Toni Ronkko Copyright (C) 1998 - 2002 Todd C Miller <Todd.Miller@courtesan.com> Copyright (C) 2011 - 2014 dnl pkgconf authors (see AUTHORS) Copyright (C) 1994 X Consortium Copyright (C) 2008 Guido U Draheim <guidod@gmx.de> Copyright (C) 2011 - 2017 \" pkgconf authors (see AUTHORS)"
pkgconf-pkg-config	1.5.3	http://pkgconf.org/	ISC	

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policycoreutils	2.8	https://github.com/SELinuxProject	" GNU General Public License, Version 2 (GPLv2) " on page 717	
popt	1.16	http://www.rpm5.org/	" MIT License " on page 767	Copyright (C) 1995 - 2007 Ulrich Drepper <drepper@gnu.ai.mit.edu> Copyright (C) 1987 Adobe Systems Incorporated Copyright (C) 2008 - 2009 ?? Free Software Foundation Inc Copyright (C) 2008 ? Free Software Foundation Inc Copyright (C) 1996 - 2009 Free Software Foundation Inc Copyright (C) 1998 Michael K Johnson and Erik W Troan Addison Copyright (C) 1995 - 2007 dnI Free Software Foundation Inc Copyright (C) 1999 - 2009 Free Copyright (C) 1994 X Consortium Copyright (C) 2008 Felipe Castro Copyright (C) 2008 pop Copyright (C) 1998 Red Hat Software Copyright (C) 1999 US Interactive Inc
procps-ng	3.3.12	https://sourceforge.net/projects/procps-ng/	" GNU General Public License, Version 3 (GPLv3) " on page 724	

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procps-ng	3.3.15	https://sourceforge.net/projects/procps-ng/	" GNU General Public License, Version 3 (GPLv3) " on page 724	
protobuf	3.5.0	https://github.com/google/protobuf	" BSD License " on page 654	
psmisc	23.1	https://gitlab.com/psmisc/psmisc	" GNU General Public License, Version 2+ (GPLv2+) " on page 723	
publicsuffix-list-dafsa	20180514	https://publicsuffix.org/	" Mozilla Public License, Version 2.0 " on page 778	
publicsuffix-list-dafsa	20180723	https://publicsuffix.org/	" Mozilla Public License, Version 2.0 " on page 778	
python-pip	18	http://www.pip-installer.org	MIT and	

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wheel			" Python License " on page 789 and ASL 2.0 and " BSD License " on page 654 and ISC and LGPLv2 and MPLv2.0 and (ASL 2.0 or " BSD License " on page 654)	
python-setup tools-wheel	40.4.3	https://pypi.python.org/pypi/setup tools	" MIT License " on page 767 and (" BSD License " on page 654 or ASL 2.0)	
python2	2.7.15	https://www.python.org/	" Python License " on page 789	
python2-backports	1	https://pypi.python.org/pypi/backports	Public Domain	

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orts				
python2-backports-ssl-match_hostname	3.5.0.1	https://bitbucket.org/brandon/backports.ssl_match_hostname	" Python License " on page 789	
python2-boto	2.45.0	https://github.com/boto/boto	" MIT License " on page 767	
python2-chardet	3.0.4	https://github.com/chardet/chardet	" GNU Library General Public License, Version 2 (LGPLv2) " on page 738	
python2-idna	2.7	https://github.com/kjd/idna	" BSD License " on page 654 and " Python License " on page 789 and Unicode	
python2-ipaddress	1.0.18	https://pypi.python.org/pypi/ipaddress/	" Python License " on page 78	

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			9	
python2-kazoo	2.5.0	https://kazoo.readthedocs.org	"Apache License, version 2.0" on page 646	
python2-libs	2.7.15	https://www.python.org/	"Python License" on page 789	
python2-pip	9.0.3	http://www.pip-installer.org	"MIT License" on page 767	Copyright (C) 2015 - 2016 Will Bond <will@wbond.net> Copyright (C) 2012 - 2016 The Python Software Foundation Copyright (C) 2010 - 2015 Benjamin Peterson Copyright (C) 2009 - 2010 Vinay Sajip All Rights Reserved Copyright (C) 2008 - 2016 The pip developers (see AUTHORS.txt file) Copyright (C) 1998 - 2005 (Portions) created the Initial Developer are Copyright (C) 2005 - 2010 ActiveState Software Inc Copyright (C) 2013 Jonathan Hartley BSD 3-Clause license see LICENSE file Copyright (C) 2012 - 2013 Python Software Foundation Copyright (C) 2007 Google Inc Copyright (C) 2012 Giorgos Verigakis <verigak@gmail.com> Copyright (C) 2013 - 2014 ## Ray Holder Copyright (C) 2013 Eddy Petri??or Copyright (C) 2015 - 2016 Nir Cohen Copyright (C) 2012 - 2016 Vinay Sajip

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python2-pyasn1	0.3.7	http://pyasn1.sourceforge.net/	" BSD License " on page 654	
python2-pysocks	1.6.8	https://github.com/Anorov/PySocks	" BSD License " on page 654	
python2-requests	2.19.1	https://pypi.io/project/requests	" Apache License, version 2.0 " on page 646	
python2-rsa	3.4.2	http://stuvel.eu/rsa	" Apache License, version 2.0 " on page 646	
python2-setup tools	39.2.0	https://pypi.python.org/pypi/setup tools	" MIT License " on page 767	Copyright (C) 2016 Jason R Coombs <jaraco@jaraco.com> Copyright (C) 2010 - 2015 Benjamin Peterson Copyright (C) 2005 - 2010 ActiveState Software Inc

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python2-setuptools	40.4.3	https://pypi.python.org/pypi/setup-tools	"MIT License" on page 767 and ("BSD License" on page 654 or ASL 2.0)	
python2-six	1.11.0	https://pypi.python.org/pypi/six	"MIT License" on page 767	
python2-urllib3	1.23	https://github.com/shazow/urllib3	"MIT License" on page 767	
python3	3.6.8	https://www.python.org/	"Python License" on page 789	
python3	3.7.0	https://www.python.org/	"Python License" on page 789	
python3-dnf	4.0.4	https://github.com/rpm-software-management/dnf	GPLv2+ and GPLv2 and GPL	
python	1.11.1	https://gnupg.org/related_	"GNU	

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n3-gpg		software/gpgme/	Lesser General Public License, Version 2+ (LGPLv2+) on page 748	
python3-hawkey	0.22.0	https://github.com/rpm-software-management/libdnf	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 748	
python3-iniparse	0.4	http://code.google.com/p/iniparse/	MIT and "Python License" on page 789	
python3-libcomps	0.1.8	https://github.com/rpm-software-management/libcomps	"GNU General Public License, Version 2+ (GPLv2+)" on page 723	
python3-libdnf	0.22.0	https://github.com/rpm-software-management/libdnf	"GNU Lesser General Public	

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			License, Version 2+ (LGPLv2+) on page 748	
python3-libs	3.6.8	https://www.python.org/	"Python License" on page 789	
python3-libs	3.7.0	https://www.python.org/	"Python License" on page 789	
python3-pip	9.0.3	http://www.pip-installer.org	"MIT License" on page 77	Copyright (C) 2015 - 2016 Will Bond <will@wbond.net> Copyright (C) 2012 - 2016 The Python Software Foundation Copyright (C) 2010 - 2015 Benjamin Peterson Copyright (C) 2009 - 2010 Vinay Sajip All Rights Reserved Copyright (C) 2008 - 2016 The pip developers (see AUTHORS.txt file) Copyright (C) 1998 - 2005 (Portions) created the Initial Developer are Copyright (C) 2005 - 2010 ActiveState Software Inc Copyright (C) 2013 Jonathan Hartley BSD 3-Clause license see LICENSE file Copyright (C) 2012 - 2013 Python Software Foundation Copyright (C) 2007 Google Inc Copyright (C) 2012 Giorgos Verigakis <verigak@gmail.com> Copyright (C) 2013 - 2014 ## Ray Holder

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python3-pyyaml	4.2	https://github.com/yaml/pyyaml	" MIT License " on page 767	
python3-rpm	4.14.2	http://www.rpm.org/	" GNU General Public License, Version 2+ (GPLv2+) " on page 723	
python3-setuptools	39.2.0	https://pypi.python.org/pypi/setup-tools	" MIT License " on page 767	Copyright (C) 2016 Jason R Coombs <jaraco@jaraco.com> Copyright (C) 2010 - 2015 Benjamin Peterson Copyright (C) 2005 - 2010 ActiveState Software Inc Copyright (C) 2003 - 2016 Paul T McGuire Copyright (C) 2013 Eddy Petri??or

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python3-six	1.11.0	https://pypi.python.org/pypi/six	" MIT License " on page 767	
qdox	2	https://github.com/paul-hammant/qdox	" Apache License, version 2.0 " on page 646	
qrencode-libs	3.4.4	http://fukuchi.org/works/qrencode/	" GNU Lesser General Public License, Version 2+ (LGPLv2+) " on page 748	
readline	7	http://cnswww.cns.cwru.edu/php/chet/readline/rltop.html	" GNU General Public License, Version 3 (GPLv3) " on page 72	

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			4	
rpm	4.14.2	http://www.rpm.org/	" GNU General Public License, Version 2+ (GPLv2+) " on page 723	
rpm-build-libs	4.14.2	http://www.rpm.org/	GPLv2+ and LGPLv2+ with exceptions	
rpm-libs	4.14.2	http://www.rpm.org/	GPLv2+ and LGPLv2+ with exceptions	
rpm-plugin-selinux	4.14.2	http://www.rpm.org/	" GNU General Public License, Version 2+ (GPLv2+) " on page 723	
rpm-sign-libs	4.14.2	http://www.rpm.org/	GPLv2+ and LGPLv2+ with exceptions	
rsync	3.1.3	http://rsync.samba.org/	" GNU	

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runit	2.1.2	http://smarden.org/runit/	"BSD License" on page 654	
sed	4.5	http://sed.sourceforge.net/	"GNU General Public License, Version 3 (GPLv3)" on page 724	
selinux-policy	3.14.2	%{git0-base}	"GNU General Public License, Version 2+ (GPLv2+)" on page 723	

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selinux-policy-targeted	3.14.2	%{git0-base}	"GNU General Public License, Version 2+ (GPLv2+)" on page 723	
setup	2.11.4	https://pagure.io/setup/	Public Domain	
setup	2.12.1	https://pagure.io/setup/	Public Domain	
shadow-utils	4.6	http://pkg-shadow.alioth.debian.org/	"BSD License" on page 654 and GPLv2+	"Copyright (C) 2007 - 2011 Nicolas Fran??ois Copyright (C) 1983 - 1991 \'" The Regents of the University of California Copyright (C) 1995 - 2016 dnI Free Software Copyright (C) 1992 Phillip Street Copyright (C) 1988 - 1994 - Julianne Frances Haugh Copyright (C) 2005 ?? the shadow holder Copyright (C) 2012 - 2013 Eric Biederman Copyright (C) 1993 \'" Michael Haardt (u31b3hs@pool.informatik.rwth-aachen.de) Fri Apr 2 11:32:09 MET DST Copyright (C) 1997 Guy Maor <maor@ece.utexas.edu> Copyright (C) 1995 Wietse Venema

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shadow-utils	4.6	http://pkg-shadow.alioth.debian.org/	"BSD License" on page 654 and GPLv2+	
slf4j	1.7.25	http://www.slf4j.org/	"MIT License" on page 767 and ASL 2.0	
slf4j-log4j12	1.7.25	http://www.slf4j.org/	"MIT License" on page 767 and ASL 2.0	
snappy	1.1.7	https://github.com/google/snappy	"BSD License" on page 65	

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sqlite-libs	3.24.0	http://www.sqlite.org/	Public Domain	
strace	4.24	https://strace.io	" BSD License " on page 654	
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subversion-libs	1.10.2	https://subversion.apache.org/	" Apache License, version 2.0 " on page 646	
systemd	238	http://www.freedesktop.org/wiki/Software/systemd	LGPLv2+ and " MIT License " on page 767 and GPLv2+	Copyright (C) 2010 Ran Benita Copyright (C) 2017 Michal Sekletar <msekleta@redhat.com> Copyright (C) 2014 Michal Schmidt Copyright (C) 2005 SUSE Linux Products GmbH Germany

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time	1.9	http://www.gnu.org/software/timed/	"GNU General Public License, Version 3 (GPLv3)" on page 724	
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tomcat	9.0.10	http://tomcat.apache.org/	"Apache License, version 2.0" on page 646	
tomcat	8.5.32	http://tomcat.apache.org/	"Apache	

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tomcat-native	1.2.17	http://tomcat.apache.org/tomcat-8.0-doc/apr.html	" Apache License, version 2.0 " on page 646	
tomcat-servlet-3.1-api	8.5.32	http://tomcat.apache.org/	" Apache License, version 2.0 " on page 646	
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ttmkfdir	3.0.9	(none)	" GNU Lesser General Public License, Version 2+ (LGPLv2+) " on page 748	
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You must change the name(s) of the fonts. This is to ensure the quality of the fonts, both to protect Bitstream and GNOME. We want to ensure that if an application has opened a font specifically of these names, it gets what it expects (though of course, using fontconfig, substitutions could still have occurred during font opening). You must include the Bitstream copyright. Additional copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

Yes. The contract between the GNOME Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both GNOME and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera, when he gets back from a well-deserved vacation.

7. I want to sell a software package that uses these fonts: can I do so?

Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

This depends on exact details of the software. Most open source systems and software (e.g., GNOME, KDE, etc.) are now converting to use fontconfig (see www.fontconfig.org) to handle font configuration, selection and substitution; it has provisions for overriding font names

and substituting alternatives. An example is provided by the supplied `local.conf` file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release from	Derived	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes

2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
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zlib License

zlib.h -- interface of the 'zlib' general purpose compression library version
1.2.2, October 3rd, 2004

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